Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

SBR No. 03/22-23 DATED 1/5/22

EE/ELE/Y/BR.No.03/22-23 Date.....2010 Dt.1/-5-22

No. 1st & Final bill

Division: **Electrical (yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-004-20-000037**

Schedule Docket No. Head of Account : P-CODE:P3740 D.R.No. :

Name of Work:- Providing Multi colour Shade lights at parks in ward no 03 & 04 of Yelahanka Sattelite Town Sub Division

Name of Contractor and Full Address: **Sri.VinayKumar M;M/s Vinay Enterprises**

Reference to Agreement No:BBMP/EE/YNK.D/EPMT-5/W.O/000211/2020-21 Date 12/01/2021

Certified that the measurements were taken by me on 26/4/22 and recorded of Pages 257424 to 431 of measurement Book No.2575/21-22 and that the work is satisfactorily executed.

For VINAY ENTERPRISES

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 26/4/22 and found correct. The work is satisfactorily executed. Proprietor

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Assistant Executive Engineer (Ele)
BBMP, Bangalore

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Bill= 7,86,269=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 1% 78626=00
3)	" Balance	Lwc 1% 78626=00
4)	Deduct Payment:	Amount adjusted
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... towards cash advance recovery of	SGST 1% 60921=00
	b) Payments Now made cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	CGST 1% 60921=00
		CBT 0.1% 7863=00
5)	Balance being unpaid value of work done held in reserve.	FSD 2% 17253=00
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	deductions = unadjustments items. 3,04,210=00
7)	Net amount due to or from Contractor	Cheque = 75,58,439=00
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	Total amount adjusted

For VINAY ENTERPRISES

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

Proprietor

(For use in the Office)

Witness
1.
2.

For VINAY ENTERPRISES

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Proprietor

Initials of Officer making payment

Stamp

P37HD

ರೂ: 78,62,649=00

ರೂ: 75,58,439=00

ರೂ: 3,04,210=00

Executive Engineer

Sl. No	Description	Unit
	Name Of Work:-Providing Multi colour Shade lights at parks in ward no 03 & 04 of Yelahanka Sattelite Town Sub Division	
1	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWfloodlightingluminaireforfacadelightingwithDie-castaluminiumhousing, powder-coatedfinish,offollowingwattage.Luminaireshallbecapableofproducingdynamiccolorchanginglightforwith16millioncolorsbyDMX/Ethernetbasedcontrol.Thebeamangleofthefittingshallbenarrow,medium,wideorasymmetricasperthe requirement.Luminaireshallbecompletewithdriverandcapableofoperatingatlinevoltagewithoutanyseparatepowersupplyfrom100-270VAC,50Hzwithpowerfactor>0.9.Fixtureshallbesuitabletooperateatanambienttemperaturerangeof-10°Cto+50°CandshallbeIP65andIK06rated.Lifetimeshallbeatleast L70:50000burninghoursat50°C.Luminaireshallbeconforming toBIS(IS10322)andshallbecompletewithallnecessaryaccessoriesrequiredforproperworkingoffixtureincludingweatherproofconnectioncables,waterproofconnectorsetc. as required.75 W	Nos
2	140 Watts	Nos
3	30Watts	Nos
4	Supply, installation, testing and commissioning of booster amplifier with power handling of 250 to 300 watt RMS 4ohms Dual and 100/70 volt output on bridge mode single channel Rack mountable Specs: frequency response : 20 htz to 20khtz	No
5	Supply, installation, testing and commissioning of 4 to 6 Channel 4 mic/line input mixer with 2/3 band semi parametric eq 2 bus and 2 aux 2 stereo return.	No
6	Supply, installation, testing and commissioning of out door garden speaker fitted with wide response and water resistant polypropylene speaker components and strong aluminium alloy housing permits various outdoor application omni directional speakers IP 55 norms 40W/100 volt with taping of 40/20/10/5watts 88 db 160 Hz-16KHz Dimensions DIA 185mm x H765 mmfrequency response Preferable. Make : Ahuja/Eq	Nos.
7	Supply and Instalation of Automatic Show time unit & programming	Nos.
8	Supply and Instalation of Master Controller The highlights of MasterLogic-200 PLC system are: • Powerful & Versatile CPU (high speed / memory, IEC programming etc) • Compact footprint (Rack room, cabinet space saver, shipping costs saver) • Modular options (power supply, range of I/O modules to suit your configuration) • Flexibility in module assignment – any module can be installed in any slot of any base without any restrictions. • Open networks (Fast Ethernet, UTP/Fiber-Optic, serial RS232C /422/485) • Open protocols (Profibus-DP, MODBUS ASCII/RTU/TCP) • Peer-to-Peer networks (Dedicated Fast Ethernet on UTP/Fiber-optic) • Simulation Environment to test control strategies without hardware or process connections. • Engineer-friendly software (Connection options, easy configuration &trouble-shooting) • Diagnostics (System/Error Logs, system monitoring, network monitoring,ping test, frame monitor) • Experion PKS & Experion HS Integ	Nos.
9	Supply and Instalation of DMX Splitter, DMX Input x1, Output x4, Thru x1, 3/16" Threaded Hole for Clamp, Opto-Isolated	Nos.
10	Supply and Instalation of custom computer or stand alone programmer for RGB lighting show	Set
11	Custom Smart Lighting Design and Programming Smart Lighting Design Project Consulting fee -	sequences
	Total Rs	
	PART B	
12	Supplying and drawing UTP-CAT 6E LAN cable.	Mtrs
13	Supplying, erecting, testing & commissioning of ON-LINE UPS system suitable for operation on 230V, 50Hz, A/C supply, with isolation transformer all accessories complete and Excluding batteries and wiring complete.3 KVA ON LINE UPS	Per Mtr
14	Supplying, installation, testing & commissioning of 12V DC, AH batteries in poly propylene container for U.P.S. Sealed maintenance free batteries.150 AH capacity	Nos

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		51	51411.49	2621985.99	51	2621985.99	
		28	78691.78	2203369.84	28	2203369.84	
		12	20999.93	251999.16	12	251999.16	
		0	28899.95	0	0	0	
		0	13427.20	0	0	0	
		0	18504.36	0	0	0	
		1	31942.05	31942.05	1	31942.05	
		1	289649.88	289649.88	1	289649.88	
		2	56320.81	112641.62	2	112641.62	
		1	185054.09	185054.09	1	185054.09	
		3	131819.44	395458.32	3	395458.32	
				6092100.95		6092100.95	
				0	0	0	
		720	30.42	21902.4	720	21902.4	
		1	44561.52	44561.52	1	44561.52	
		2	14790.90	29581.8	2	29581.8	

15	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcm
16	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs
17	Supplying heavy gauge PVC conduit pipe .....dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.32mm dia 2.5mm thick	Mtrs
18	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts **as per IS-694:1990 4C X 2.5Sq.mm**	Mtrs
19	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs
20	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	Mtrs
21	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs
22	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.35 sqmm Long Barrel	Nos
23	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.	Nos
	Total Part B	
	EXTRA ITEMS (EIRL)	
24	Fabricating, supplying and erection of ...Mtrs long hot dip **Galvanized Octagonal pole** with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended. meters - Top 70mm and bottom 130mm dia	Nos
25	Providing Rcc Pole pedstal of Size 0.3x0.3x1.2 Mtrs Including digging of pit, tor steel,templates ,Centring,1;4;8 base concrete,1;2;4 pedestal concrete and etc coplete as per the data sheet enclosed	Set
26	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32Amps SP	Each
27	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker **(ELMCB)** 240/450V up to 300mA sensitivity on existing wood/panel board.32-40 Amps 4 pole	Each

		119750	0.346	41433.5	119750	41433.5	
		198.00	267.50	52965	198	52965	
		880	96.51	84928.8	880	84928.8	
		1165	120.64	140545.6	1165	140545.6	
		675	157.35	106211.25	675	106211.25	
		675	12.46	8410.5	675	8410.5	
		351	79.72	27981.72	351	27981.72	
		700	13.05	9135	700	9135	
		2	4242.16	8484.32	2	8484.32	
				576141.41		576141.41	
				0	0	0	
		27	7651.00	206577	27	206577	
		27	1695.00	45765	27	45765	
		27	434	11718	27	11718	
		2	2800	5600	2	5600	

28	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm	Each
29	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each
30	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps	Each
31	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia	No
	Total Rs	
	Add GST 12% on Total	
	Total Rs	
	Approved Rates Including GST	
32	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWLinearWallWasherluminaireforFacadelightingwith aluminiumextrudedhousing,offollowingwattage.Luminaireshallbecapableofproducingdynamiccolorchanginglightwith 16millioncolorsbyDMX/Ethernetbasedcontrol.Thebeamangleofthefittingshallbenarrow,medium,wideorasymmetrica spertherequirement.Luminaireshallbecompletewithdriverandcapableofoperatingatlinevoltagewithoutanyseparatepo wersupplyfrom100to270VAC,50Hz,powerfactor>0.9.Fixtureshallbesuitabletooperateatambienttemperaturerangeof-10°Cto+50°CandshallbeIP65andIK06rated.Lifetimeshouldbeatleast L70:50000burninghoursat50°C.Luminaireshallb econformingtoBISandshallbecompletewithallnecessaryaccessoriesrequiredforproperworkingoffixtureincludingweat herproofconnectioncables,waterproofconnectors etc. as required 70 watts	
33	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWLinearWallWasherluminaireforFacadelightingwith aluminiumextrudedhousing,offollowingwattage.Luminaireshallbecapableofproducingdynamiccolorchanginglightwith 16millioncolorsbyDMX/Ethernetbasedcontrol.Thebeamangleofthefittingshallbenarrow,medium,wideorasymmetrica spertherequirement.Luminaireshallbecompletewithdriverandcapableofoperatingatlinevoltagewithoutanyseparatepo wersupplyfrom100to270VAC,50Hz,powerfactor>0.9.Fixtureshallbesuitabletooperateatambienttemperaturerangeof-10°Cto+50°CandshallbeIP65andIK06rated.Lifetimeshouldbeatleast L70:50000burninghoursat50°C.Luminaireshallb econformingtoBISandshallbecompletewithallnecessaryaccessoriesrequiredforproperworkingoffixtureincludingweat herproofconnectioncables,waterproofconnectors etc. as required 40 Watts	
	E I R L Total	
	PART B TOTAL	
	PART A TOTAL	
	Add GST 12% on part B only	
	Grand Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Elc,
BBMP, Bangalore

		27	2054	55458	27	55458	
		1	4030.00	4030	1	4030	
		1	7200	7200	1	7200	
		1	2999.70	2999.7	1	2999.7	
				339347.7		339347.7	
				40721.724		40721.724	
				380069.424		380069.424	
				0	0	0	
		8	54100.00	432800	8	432800	
		8	39050.00	312400	8	312400	
				1125269.42		1125269.42	
				576141.41		576141.41	
				6092100.95		6092100.95	
				69136.97		69136.97	
				7862648.75		**7862648.75**	